

## **Development of Education and Training Materials for Environmental Assessments and Security of Nuclear Facilities**

### **Executive Summary**

The Departments of Nuclear Engineering at The University of Tennessee (UTNE) and the Missouri University of Science and Technology (MS&T-NE) will jointly develop training and education material for environmental assessments and security of nuclear facilities. The proposed material will be developed as resident and distance education modules suitable for both college credits at their respective institutions, as well as for professional training of individuals who may wish to acquire these skills.

Objectives: The fundamental goal of this UT-UMR partnership is to develop internet-available educational materials that will support the goals of the U.S. Nuclear Regulatory Commission. Proposed modules will cover: a) Radiation Measurement Lab; b) Environmental Impact Assessment; c) Neutron Activation Analysis (NAA); d) Environmental Sampling and Monitoring; and e) Radioactive Waste Assay Handling.

Benefits: This collaborative effort and resource sharing will improve nuclear educational infrastructure at two major nuclear engineering programs and throughout the United States. Innovative methods will be developed to remotely share research nuclear reactor and other laboratory infrastructure to benefit a large group of students from all parts of the country. Students from anywhere in the United States, or any country permitted to participate in this distance education program, will benefit from this effort.